

TECHNICAL SHEET

B424	BILE ESCULIN AGAR BASE				
Formula					
Ingredients :					
		gms/lit.			
Peptone		5.00			
Meat extract B #		3.00			
Bile		40.00			
Ferric citrate		0.50			
Agar		15.00			
# Equivalent to Beef extract					
Final pH (at 25°C) : 6.6 ± 0.2					
Directions :					
Suspend 31.75 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Cool to 45-50°C. Add rehydrated contents of 1 vial of Esculin (BF011). Mix and dispense into tubes or flasks as desired. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Allow the tubed medium to solidify in slanted position.					
Principle :					
Peptone and meat extract B serve as sources of carbon, nitrogen, amino acids, vitamins and essential growth nutrients. Bile inhibits most of the other accompanying bacteria. Esculin when added as a supplement in the medium is hydrolyzed to esculetin and dextrose. Esculetin reacts with ferric citrate to form a dark brown or black complex, visualized as a zone of black precipitate around the colonies. If the media is dispensed in tubes in the form of slants, a positive reaction is indicated by blackening of more than half of the slant within 24-48 hours. If blackening is totally absent or if less than half of the slant is blackened within 24-48 hours, the test is negative.					
QC Tests - (I) Dehydrated Medium					
	Colour :	Cream to brownish yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	6.6 ± 0.2			
	Colour (post autoclaving/heating) :	Yellow to medium amber			
	Clarity (post autoclaving/heating) :	Clear to Slightly opalescent			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed with added Esculin (BF011) in an increased atmosphere of Carbon dioxide, after an incubation at 35-37°C for 18-24 hours.				
	MICROORGANISM (ATCC)	GROWTH	ESCULIN HYDROLYSIS		
	Enterococcus faecalis (29212)	Luxuriant	Positive reaction, blackening of medium around the colony		
	Streptococcus pyogenes (19615)	Luxuriant	Negative reaction		
	Proteus mirabilis (25933)	Luxuriant	Negative reaction		
Precautions :					
	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
	3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective gloves and eye/ face protection. Use only in well ventilated areas. Keep container tightly closed.				
Limitations :					
	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :					
	For differential isolation and presumptive identification of group D Streptococci in food and pharmaceutical products.				
Storage :					
	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.				
Packing :					
	500 gm. bottle				
Product profile:					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B424	63.5g/l	7.874L	6.6 ± 0.2	Esculin (BF011)	121°C / 15 minutes

Refer disclaimer Overleaf

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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